S
S
553.28
O1S
MAR 1963

VED WITH
PERIODICALS
MAY 13 19

Montana State Library
3 0864 1005 9660 3

# MONTANA OIL AND GAS STATISTICAL BULLETIN

ADMINISTRATORS
JAMES F. NEELY
EXECUTIVE SECRETARY
JOHN H. RISKEN
ATTORNEY
ROBERT M. WATKINS
PETROLEUM ENGINEER
BILLY B. LANE
GEOLOGIST

COMMISSIONERS
G. W. YODER, CHAIRMAN
215 E. MORRILL
SIDNEY, MONTANA
TED HAWLEY
CONRAD, MONTANA
ALLEN ZIMMERMAN
BOX 277
POPLAR, MONTANA
WINSTON L. COX
2512 RAYMOND PLACE
BILLINGS, MONTANA
E. G. BALSAM
2300 PEARL
MILES CITY, MONT.

## OIL AND GAS CONSERVATION COMMISSION

SAVINGS BLDG.
HELENA, MONTANA

Vol. XI, No. 3 — HELENA INDEPENDENT-RECORD HELENA, MONTANA — MARCH, 1963

Production of crude oil and condensate from the oil and gas areas of Montana for the Month of March, 1963, averaged 86,002 barrels daily, a decrease of 769 barrels from the average February production of 86,771.

The eight refineries in State processed 81,264 barrels of crude oil daily for the month of March, 1963, an increase of 26 barrels from the 81,238 barrels processed daily during the month of February, 1963.

During March, 19 wells were completed, 12 oil, 0 gas wells and 7 dry holes.

During March, the commission issued 26 permits to drill new wells, an increase of 3 from the 23 permits issued during February.

### SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA

MONTH OF MARCH, 1963

| | |
|---|---|
| IN STORAGE MARCH 1st: | |
| By Producers | 368,864 |
| By Transporters | 943,994 |
| By Refiners | 476,178 |
| TOTAL STORAGE | 1,789,036 |
| Produced in Montana During Month | 2,666,091 |
| Imported During Month | 1,564,928 |
| TOTALS | 6,020,055 |
| DISPOSITION: | |
| Refined in Montana | 2,519,207 |
| Exported | 1,775,049 |
| Used for Fuel or Lost | 11,736 |
| TOTAL | 4,305,992 |
| IN STORAGE MARCH 31st: | |
| By Producers | 391,644 |
| By Transporters | 915,187 |
| By Refiners | 407,232 |
| TOTAL STORAGE | 1,714,063 |

### NATURAL GAS WITHDRAWALS IN MONTANA

Month of March, 1963

| Field | M Cu. Ft. |
|---|---|
| Bears Den | 0 |
| Big Coulee | 99,063 |
| Bowdoin | 173,505 |
| Bowes | 81,987 |
| Box Elder | 0 |
| Cabin Creek | 68,358 |
| Cedar Creek | 344,329 |
| Clarks Fork | 0 |
| Cut Bank (including Reagan) | 854,647 |
| Devon | 0 |
| Dry Creek | 151,062 |
| Elk Basin | 32,070 |
| Flat Coulee | 33,506 |
| Golden Dome | 21,715 |
| Grandview | 0 |
| Hardin | 3,503 |
| Havre | 0 |
| Keith Block | 278,608 |
| Kevin Sunburst | 79,471 |
| Pine | 58,760 |
| Plevna | 16,157 |
| Utopia | 78,090 |
| Whitlash | 290,123 |
| Miscellaneous | 12,893 |
| TOTAL | 2,677,847 |

Total Withdrawals for March, 1962 were 3,257,770 M Cu. Ft.

## PRODUCERS REPORT—MONTH OF MARCH, 1963

| Leases | Field | No. of Wells | Storage 1st of Month | Oil Produced | Oil Shipped By | | Used or Lost | Storage End of Month |
|---|---|---|---|---|---|---|---|---|
| | | | | | Pipeline | Truck | | |
| 1 | Ash Creek | 4 | 573 | 2,233 | | 2,144 | | 662 |
| 4 | Bannatyne | 8 | 1,208 | 1,201 | | 1,432 | | 977 |
| 1 | Bascom | 1 | 261 | 871 | 777 | | | 355 |
| 5 | Bear's Den | 6 | 1,563 | 2,981 | | 3,044 | | 1,500 |
| 1 | Belfry | 1 | 402 | 597 | | 753 | | 246 |
| 1 | Benrud | 1 | 449 | 1,819 | 2,073 | | | 195 |
| 1 | Benrud East | 1 | 810 | 15,413 | 15,560 | | | 663 |
| 11 | Big Wall | 31 | 3,191 | 23,577 | 23,681 | 444 | 95 | 2,548 |
| 9 | Blackfoot | 14 | 3,205 | 7,055 | 7,710 | | | 2,550 |
| 3 | Border | 3 | 42 | 796 | | 742 | | 96 |
| 1 | Bowes | 76 | 5,371 | 15,006 | 16,654 | | | 3,723 |
| 3 | Brady | 7 | 180 | 3,428 | 3,428 | | | 180 |
| 2 | Bredette North | 2 | 1,957 | 515 | 803 | | | 1,669 |
| 11 | Cabin Creek | 116 | 16,758 | 314,207 | 311,858 | | | 19,107 |
| 14 | Cat Creek | 95 | 3,894 | 22,074 | 22,157 | | | 3,811 |
| 1 | Clark's Fork North | 1 | 1,949 | 682 | | 814 | | 1,817 |
| 1 | Cupton | 1 | 1,030 | 1,225 | | 1,380 | | 875 |
| 207 | Cut Bank | 1,084 | 114,127 | 151,559 | 148,164 | | 196 | 117,326 |
| 3 | Deer Creek | 6 | 1,332 | 14,590 | 13,285 | | | 2,637 |
| 2 | Delphia | 2 | 756 | 947 | | 977 | 8 | 718 |
| | Devil's Basin | | 1,265 | | | | | 1,265 |
| 5 | Dry Creek | 5 | 1,288 | 1,180 | 1,102 | | | 1,366 |
| 21 | Dwyer | 22 | 14,526 | 72,605 | 72,329 | | 103 | 14,699 |
| 8 | Elk Basin | 59 | 3,724 | 284,756 | 285,291 | | | 3,189 |
| 2 | Fertile Prairie | 2 | 858 | 2,042 | 1,868 | | | 1,032 |
| 3 | Flat Coulee | 12 | 1,911 | 17,082 | | 16,224 | | 2,769 |
| 2 | Frannie | 2 | | 1,211 | 1,211 | | | |
| 2 | Gage | 2 | 761 | 624 | 509 | | 5 | 871 |
| 4 | Gas City | 26 | 4,901 | 69,150 | 62,014 | 2,762 | | 9,275 |
| 6 | Glendive | 11 | 1,929 | 36,460 | 36,235 | | | 2,154 |
| 6 | Graben Coulee | 15 | 3,935 | 10,148 | 9,739 | | | 4,344 |
| 4 | Gypsy Basin | 4 | 1,490 | 2,320 | 2,620 | | 111 | 1,079 |
| 1 | Hibbard | 1 | 797 | 701 | | 1,182 | | 316 |
| 9 | Ivanhoe | 18 | 3,270 | 37,674 | 37,660 | | 62 | 3,222 |
| 6 | Keg Coulee | 13 | 2,787 | 29,900 | 28,469 | | | 4,218 |
| 150 | Kevin Sunburst | 869 | 19,169 | 46,409 | 46,229 | | 1,413 | 17,936 |
| 2 | Little Beaver | 24 | 3,944 | 25,317 | 25,218 | 845 | | 3,198 |
| 4 | Little Beaver East | 23 | 3,439 | 30,099 | 30,625 | | | 2,913 |
| 1 | Lone Tree | 2 | 1,741 | 7,246 | 7,323 | | | 1,664 |
| 19 | Lookout Butte | 54 | 8,780 | 179,962 | 171,971 | 4,693 | 5,216 | 6,862 |
| | Mackay Dome | | 770 | | | | | 770 |
| 2 | Melstone | 5 | 1,040 | 6,930 | 7,173 | | | 797 |
| 6 | Monarch | 16 | 4,014 | 14,406 | 14,508 | | | 3,912 |
| 4 | Mosser | 4 | | 1,009 | | 1,009 | | |
| 2 | Musselshell | 2 | 1,185 | 1,037 | | 964 | | 1,258 |
| 7 | Outlook | 11 | 7,871 | 35,756 | 34,935 | | | 8,692 |
| 3 | Outlook South | 3 | 1,635 | 2,284 | 1,339 | | | 2,580 |
| 41 | Pennel | 69 | 4,685 | 162,403 | 147,777 | 13,549 | 760 | 5,002 |
| 4 | Pine | 143 | 13,913 | 372,027 | 362,799 | 968 | | 22,173 |
| 78 | Pondera | 290 | 7,671 | 36,554 | 35,866 | | | 8,359 |
| 2 | Pondera Coulee | 2 | 144 | 277 | 393 | | 28 | |
| 5 | Poplar, East | 89 | 16,801 | 138,864 | 137,459 | | 8 | 18,198 |
| 4 | Poplar, Northwest | 5 | 1,338 | 1,676 | 1,843 | | | 1,171 |
| 6 | Ragged Point | 19 | 3,362 | 13,726 | 13,921 | | | 3,167 |
| 4 | Reagan | 43 | 2,947 | 20,784 | 19,699 | | | 4,032 |
| 9 | Red Creek | 22 | 3,067 | 36,504 | 33,445 | 3,008 | | 3,118 |
| 1 | Redstone | 1 | 706 | 1,012 | 709 | | | 1,009 |
| 1 | Repeat | 1 | 341 | 1,714 | | 1,812 | | 243 |
| 3 | Richey | 5 | 1,582 | 7,859 | | 4,371 | | 5,070 |
| 4 | Richey, Southwest | 5 | 3,144 | 9,587 | | 10,039 | | 2,692 |
| 4 | Sand Creek | 5 | 4,452 | 6,146 | 6,332 | | | 4,266 |
| 7 | Sidney-Brorson | 7 | 5,981 | 5,550 | | 5,715 | 19 | 5,797 |
| 2 | Snyder | 4 | 1,945 | 784 | | 350 | | 2,379 |
| 6 | Soap Creek | 10 | 5,030 | 4,548 | | 5,740 | | 3,838 |
| 1 | Spring Lake | 1 | 1,850 | 10,367 | | 10,339 | | 1,878 |
| 2 | Stensvad | 28 | 6,829 | 53,619 | 49,968 | | | 10,480 |
| 21 | Sumatra | 99 | 13,916 | 166,140 | 169,165 | | | 10,891 |
| 6 | Tule Creek | 8 | 2,457 | 75,071 | 74,054 | | | 3,474 |
| 11 | Whitlash | 30 | 5,255 | 9,668 | | 9,456 | | 5,467 |
| 2 | Whitlash West | 2 | | 577 | | 577 | | |
| 9 | Wolf Springs | 18 | 3,760 | 19,436 | 17,943 | | | 5,253 |
| 4 | Woodrow | 6 | 796 | 12,712 | 12,637 | | | 871 |
| 1 | Wildcat, Sheridan Cty | 1 | 804 | 1,402 | 1,426 | | | 780 |
| 799 | | 3,578 | 368,864 | 2,666,091 | 2,529,954 | 105,333 | 8,024 | 391,644 |

| Total Oil Produced and Shipped from Lease | Bbls. Produced | Daily Average | Bbls. Shipped | Daily Average |
|---|---|---|---|---|
| Year, 1962 | 31,647,507 | 86,705 | 31,739,123 | 86,956 |
| January, 1963 | 2,604,790 | 84,025 | 2,585,807 | 83,413 |
| February, 1963 | 2,429,594 | 86,771 | 2,424,021 | 86,572 |
| March, 1963 | 2,666,091 | 86,002 | 2,635,287 | 85,009 |

| Oil in Storage | In Producers Field Tank | In Transporters Storage | In Refiners Storage* | Total Oil in Storage* |
|---|---|---|---|---|
| December, 1962 | 350,355 | 917,246 | 595,843 | 1,863,444 |
| January, 1963 | 367,912 | 845,758 | 502,519 | 1,716,189 |
| February, 1963 | 368,864 | 943,994 | 476,178 | 1,789,036 |
| March, 1963 | 391,644 | 915,187 | 407,232 | 1,714,063 |

*Includes Wyoming Oil

## TRANSPORTERS REPORT—MONTH OF MARCH, 1963

| | Storage First of Month | OIL RECEIVED BY | | | Loss or (Gain) | OIL SHIPPED TO | | | Storage End of Month |
|---|---|---|---|---|---|---|---|---|---|
| | | Pipeline | Truck | Connecting Carrier | | Montana | Other States | Connecting Carrier | |
| ASH CREEK—Truck | | | 2,144 | | | | 2,144 | | |
| BANNATYNE—Truck | | | 1,432 | | | 1,432 | | | |
| BEAR'S DEN—Truck | | | 3,044 | | | 3,044 | | | |
| BELFRY—Truck | | | 753 | | | | | 753 | |
| BIG WALL—McWood Corp. | | | 444 | | | 444 | | | |
| Glacier Pipe Line Co. | | 24,218 | | | | 24,218 | | | |
| | | 24,218 | 444 | | | 24,662 | | | |
| BLACKFOOT—Union Oil Co. | | 7,710 | | | | 1,464 | | 6,246 | |
| BORDER—Truck | | | 742 | | | | | 742 | |
| BOWES—Texaco, Inc. | | 16,654 | | | | 16,654 | | | |
| CABIN CREEK & OTHERS* | | | | | | | | | |
| Butte Pipe Line Co. | 314,939 | 1,004,339 | | 642,333 | | | 1,614,982 | | 346,629 |
| Shell Pipe Line Corp. | 3,502 | 279,173 | | 672 | 1,073 | | | 279,558 | 2,716 |
| Truck | | | 40,419 | | | | | 40,419 | |
| | 318,441 | 1,283,512 | 40,419 | 643,005 | 1,073 | | 1,614,982 | 319,977 | 349,345 |
| CAT CREEK | | | | | | | | | |
| Glacier Pipe Line Co. | | 15,634 | | | | 15,634 | | | |
| CLARK'S FORK—Truck | | | 814 | | | | | 814 | |
| CUT BANK | | | | | | | | | |
| Darling Gathering System, Inc. | 1,903 | 7,020 | | | | | | 6,822 | 2,101 |
| Glacier Pipe Line Co. | | | | 149,703 | | | | 149,703 | |
| Phillips Petroleum Co. | 29,862 | 47,733 | | 47,784 | (210) | 50,807 | | 58,154 | 16,628 |
| Texas Pipe Line Co. | 18,662 | 24,782 | | 29,256 | 21 | 15,234 | | 38,729 | 18,716 |
| Teton Pipeline Corp. | 35,455 | 33,407 | | 63,346 | 318 | | | 75,803 | 56,087 |
| Union Oil Co. | 47,802 | 56,757 | | 30,109 | 67 | 65,531 | | | 69,070 |
| | 133,684 | 169,699 | | 320,198 | 196 | 131,572 | | 329,211 | 162,602 |
| DELPHIA—Truck | | | 977 | | | 977 | | | |
| DRY CREEK— | | | | | | | | | |
| Marathon Pipe Line Co. | 7,788 | 1,102 | | | 125 | | | | 8,765 |
| ELK BASIN—Ohio Oil Co. | | 285,291 | | | | 285,291 | | | |
| FLAT COULEE—Truck | | | 16,224 | | | 16,224 | | | |
| FRANNIE—Marathon Pipeline Co. | | 1,211 | | | | | 1,211 | | |
| GAGE—Glacier Pipe Line Co. | | 509 | | | | 509 | | | |
| GLENDIVE, DEER CREEK, WOODROW & SAND CREEK | | | | | | | | | |
| Texas Pipe Line Co. | 7,891 | 68,479 | | | 841 | | | 65,520 | 10,009 |
| HIBBARD—Truck | | | 1,182 | | | 1,182 | | | |
| IVANHOE—Glacier Pipe Line Co. | | 37,676 | | | | 37,676 | | | |
| KEG COULEE | | | | | | | | | |
| Glacier Pipe Line Co. | | 28,470 | | | | 28,470 | | | |
| KEVIN SUNBURST | | | | | | | | | |
| Big West Oil Co. | 3,447 | 77,560 | | | | 78,733 | | | 2,274 |
| Homestake Oil & Gas Co. | 457 | 2,527 | | 6,820 | | 7,376 | | | 2,428 |
| Texas Pipe Line Co. | 9,242 | 17,127 | | | 118 | | | 20,314 | 5,937 |
| | 13,146 | 97,214 | | 6,820 | 118 | 86,109 | | 20,314 | 10,639 |
| MELSTONE— | | | | | | | | | |
| Glacier Pipe Line Co. | | 7,174 | | | | 7,174 | | | |
| MOSSER—Truck | | | 1,009 | | | | | 1,009 | |
| MUSSELSHELL—Truck | | | 964 | | | | 964 | | |
| PONDERA—Phillips Petr. Co. | 9,341 | 38,869 | | 52,533 | (905) | 91,536 | | | 10,112 |
| POPLAR, BENRUD, BREDETTE, DWYER, OUTLOOK, OUTLOOK SOUTH, REDSTONE, RICHEY & TULE CREEK | | | | | | | | | |
| East Poplar Gathering System | 30,178 | 321,141 | | | 901 | | | 341,451# | 8,967 |
| Hunt Petroleum Corporation | | 24,030 | | | | | 24,030 | | |
| | 30,178 | 345,171 | | | 901 | | 24,030 | 341,451 | 8,967 |
| RAGGED POINT— | | | | | | | | | |
| Glacier Pipe Line Co. | | 14,675 | | | | 7,827 | 6,848 | | |
| RED CREEK—Teton Pipeline Co. | | 40,924 | | | 409 | | | 40,515 | |
| Mountain Crude Marketers | | 5,000 | 3,008 | | | | | 8,008 | |
| | | 45,924 | 3,008 | | 409 | | | 48,523 | |
| SIDNEY-BRORSON—McWood Corp. | 3,281 | | 5,715 | 1,394 | | | | 3,301 | 7,089 |
| SNYDER—McWood Corp. | | | 350 | | | 350 | | | |
| SOAP CREEK—McWood Corp. | 402 | | 5,740 | 1,720 | | 7,533 | | | 329 |
| SPRING LAKE—Truck | | | 10,339 | | | | 10,339 | | |
| SUMATRA AND STENSVAD | | | | | | | | | |
| Glacier Pipe Line Co. | 400,116 | 218,754 | | 223,062 | 411 | 218,754 | | 275,437 | 347,330 |
| WHITLASH— | | | | | | | | | |
| Truck | | | 10,033 | | | 10,033 | | | |
| WOLF SPRINGS | | | | | | | | | |
| Glacier Pipe Line Co. | 19,726 | 17,955 | | | | 17,955 | | 19,726 | |
| TOTALS | 943,994 | 2,725,901 | 105,333 | 1,248,732 | 3,169 | 1,012,062 | 1,660,518 | 1,433,024 | 915,187 |

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Southwest Richey and Lone Tree Fields.

#Transferred to Butte Pipe Line Company.

## BARRELS OF CRUDE OIL REFINED IN MONTANA

### MONTH OF MARCH, 1963

| Field | Big West Oil Co. | Continental Oil Co. | Diamond Asphalt Co. | Farmers Union | Humble Oil & Rfg. Co. | Jet Fuel Refinery | Phillips Petr. Co. | Union Oil Co. | Total |
|---|---|---|---|---|---|---|---|---|---|
| Big Wall | ---------- | 24,125 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 24,125 |
| Blackfoot | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 1,464 | 1,464 |
| Bowes | ---------- | ---------- | 16,988 | ---------- | ---------- | ---------- | ---------- | ---------- | 16,988 |
| Cat Creek | ---------- | 14,969 | ---------- | ---------- | ---------- | 430 | ---------- | ---------- | 15,399 |
| Cut Bank | 18,113 | ---------- | ---------- | ---------- | ---------- | ---------- | 92,816 | 58,770 | 169,699 |
| Delphia | ---------- | ---------- | ---------- | ---------- | ---------- | 492 | ---------- | ---------- | 492 |
| Dry Creek | ---------- | ---------- | ---------- | 1,102 | ---------- | ---------- | ---------- | ---------- | 1,102 |
| Elk Basin | ---------- | 112,858 | ---------- | 76,260 | 96,155 | ---------- | ---------- | ---------- | 285,273 |
| Flat Coulee | 16,224 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 16,224 |
| Gage | ---------- | 509 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 509 |
| Hibbard | ---------- | ---------- | ---------- | ---------- | ---------- | 315 | ---------- | ---------- | 315 |
| Ivanhoe | ---------- | ---------- | ---------- | 36,224 | ---------- | ---------- | ---------- | ---------- | 36,224 |
| Keg Coulee | ---------- | 28,469 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 28,469 |
| Kevin Sunburst | 19,924 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 19,924 |
| Melstone | ---------- | ---------- | ---------- | 7,173 | ---------- | ---------- | ---------- | ---------- | 7,173 |
| Mosser | ---------- | 1,009 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 1,009 |
| Pondera | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 48,118 | 442 | 48,560 |
| Ragged Point | ---------- | ---------- | ---------- | 7,827 | ---------- | ---------- | ---------- | ---------- | 7,827 |
| Reagan | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 252 | 252 |
| Red Creek | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 18,880 | 18,880 |
| Snyder | ---------- | 351 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 351 |
| Soap Creek | ---------- | 7,533 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 7,533 |
| Sumatra & Stensvad | ---------- | ---------- | ---------- | 164,834 | 53,920 | ---------- | ---------- | ---------- | 218,754 |
| Whitlash | 10,033 | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | 10,033 |
| Wolf Springs | ---------- | ---------- | ---------- | ---------- | 17,700 | ---------- | ---------- | ---------- | 17,700 |
| Total Montana Oil | 64,294 | 189,823 | 16,988 | 293,420 | 167,775 | 1,237 | 140,934 | 79,808 | 954,279 |
| Canadian Oil Imported | ---------- | 108,131 | ---------- | ---------- | 44,559 | ---------- | ---------- | ---------- | 152,690 |
| Wyoming Oil Imported | ---------- | 240,153 | ---------- | 238,784 | 932,128 | 1,173 | ---------- | ---------- | 1,412,238 |
| Total Montana, Canadian and Wyoming Oil | 64,294 | 538,107 | 16,988 | 532,204 | 1,144,462 | 2,410 | 140,934 | 79,808 | 2,519,207 |

### AVERAGE BARRELS PER DAY

| | Montana | Canada | Wyoming | Total |
|---|---|---|---|---|
| Year, 1962 | 30,616 | 728 | 45,775 | 77,119 |
| March, 1962 | 22,428 | 173 | 48,473 | 71,074 |
| March, 1963 | 30,783 | 4,925 | 45,556 | 81,264 |

### PERCENTAGE OF CRUDE OIL REFINED

| | Montana | Canada | Wyoming |
|---|---|---|---|
| Year, 1962 | 39.69% | .96% | 59.35% |
| March, 1962 | 31.55% | .25% | 68.20% |
| March, 1963 | 37.88% | 6.07% | 56.05% |

Montana School of Mines
Office of the President
Butte, Montana